

HARIPRASATH CHANDRASEKARAN

Coimbatore, Tamil Nadu | hariprasathcemail@gmail.com | +91 9344451561

Portfolio: hariprasath.me | GitHub: [Hariprasath1x](#) | LinkedIn: [hariprasathc93](#) | LeetCode: [Hariprasath93](#)

Summary

Final-year B.Tech (AI & Data Science, CGPA 8.44) aspiring **Software Engineer**. Built **backend, data pipeline, and GenAI** projects in **Python** with **REST APIs, SQL, Kafka, PySpark, Docker, and Git**. Solved **500+ DSA problems**.

Education

Sri Shakthi Institute of Engineering and Technology, Coimbatore	2023 – Present
B.Tech, Artificial Intelligence and Data Science CGPA: 8.44	
Government Higher Secondary School, Kangayam HSC – 86%	2023
Government Higher Secondary School, Kangayam SSLC – 100%	2021

Technical Skills

- **Languages:** Python, SQL
- **Backend & APIs:** FastAPI, REST APIs, JWT Authentication, SQLAlchemy, JSON
- **Data Engineering:** Apache Kafka, PySpark, Spark Structured Streaming, Airflow, ETL, Data Pipelines, Data Validation
- **Libraries:** Pandas, NumPy, Scikit-learn
- **Databases:** PostgreSQL, MySQL, SQLite, Database Design, ChromaDB (Vector Database)
- **Cloud & Tools:** AWS (EC2, RDS, S3), Docker, Git, GitHub
- **Fundamentals:** DSA, Generative AI, LLM APIs, RAG, Prompt Engineering, Semantic Search

Projects

StreamFlow – Real-Time E-Commerce Data Pipeline [GitHub](#)

- Built an **event-driven** streaming **ETL pipeline** with **Python, Apache Kafka (KRaft), and PySpark Structured Streaming**, consuming an orders topic and processing micro-batches via `foreachBatch`.
- Calculated `total_amount` and ingested validated records into **PostgreSQL** over **JDBC**.
- Implemented schema validation, **data quality checks**, and a **dead-letter queue (DLQ)** for 4 invalid-event categories (malformed JSON, missing IDs, invalid timestamps, negative quantity/price); tested on **10 events (5 valid, 5 invalid)**.
- Containerized Kafka and PostgreSQL with **Docker**; added Spark checkpointing for recovery and an **Apache Airflow** DAG for batch-vs-streaming comparison.

LedgerBud – Personal Finance Analytics Platform [GitHub](#)

- Built **FastAPI REST APIs** with **JWT authentication** on **SQLAlchemy** and **MySQL/PostgreSQL**.
- Designed the **SQL schema** and a **Pandas ETL** pipeline to import, normalize, deduplicate, and categorize **3 statement formats** (PDF, CSV, XLSX).
- Developed a deterministic insights engine for spending anomalies, budget overruns, and savings-rate changes, plus a **0–100 Financial Health Score**.
- Integrated an **LLM advisor** (GPT-OSS-120B via Groq) fed aggregated data instead of raw transactions.

VinavalAI – Bilingual RAG Learning Platform [GitHub](#)

- Built a bilingual (English/Tamil) **RAG** platform with a **dual-retrieval architecture**: 2 workflows for pre-indexed textbooks and user-uploaded PDFs.
- Implemented text extraction, chunking, **embeddings**, **ChromaDB** vector search (**semantic search**), and LLM response generation (GPT-OSS-120B via Groq).
- Exposed **FastAPI REST endpoints** for 4 features: answers, question generation, Smart Revision, and Smart Notes.

Internship

Cloud Developer Intern, Career Ladder, Coimbatore Sep 2025 – Oct 2025

- Deployed multi-tier applications on **AWS (EC2, RDS, S3)** for hands-on cloud infrastructure experience.
- Containerized applications with **Docker** for consistent development and deployment.

Achievements

- **Top 11.97% globally on LeetCode**; 500+ DSA problems, including 80+ SQL.
- **MySQL for Data Science** (IBM); **Python and MySQL Intermediate** (HackerRank).
- **SIH25074** college-level round winner (75+ teams); 3rd Prize Data Fest; 2nd Prize Algo Arena.